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Digital imaging system and file format for storage and selective transmission of processed and unprocessed image data

NA Parulski, J. Ward, GK Eastrop, J. Scott Houchin - 2003 - Google Patents

... (45) Date of Patent: May 20, 2003 (54) DIGITAL IMAGING SYSTEM AND FILE FORMAT FOR STORAGE AND SELECTIVE TRANSMISSION OF PROCESSED AND UNPROCESSED IMAGE DATA (75) Inventors: Kenneth A. Parulski, Rochester, NY (US); J. Scott Houchin ...

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Image format for storing digital images and including multiple application segments

NA Parulski, J. Ward, GK Eastrop, J. Scott Houchin - 2003 - Google Patents

... marker segment to store auxiliary data and a reduced-resolution "thumbnail" image. These image formats include JFIF, defined in "JPEG File Interchange Format Version 1.02 Sep. 1, 1992 C-Cube Microsystems", the JPEG compressed version of EXIF (Exchangeable image ...

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Metadata practices for consumer photos

J. Leela, M. Kulkarni, IEEE, 2005 - ieeeexplore.ieee.org

... at Shawn's wedding," or a full photo description, such as "Mom, Dad, Uncle Peng, and his girlfriend at the Empire State Building, summer 2005." Searching these files is then reduced to the ... Efforts in image metadata standardization Besides EXIF and IPTC ...

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[\[PDF\] from gutenberg.org](#)

System on a chip for digital still camera

S. Okada, Y. Matsuda, T. Yamada, ... - IEEE Transactions on, 1999 - ieeeexplore.ieee.org

... v Blockchain The RISC CPU transforms moving image data to avi file format (open DML conformity) or still images to Exif file format, merging it with sound (ADPCM). ... This allows access time for large data, such as moving image files, to be significantly reduced (from ten ...

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Remote system for image storage and search

E. Imaeda - US Patent 7,076,573, 2006 - Google Patents

... Details of the standard for Exif are prescribed in the standards JEIDA-49- 1998 also ... method which compresses image data so that the amount of data is reduced to about 1/10 in the JPEG compression method, blocks of image data in predetermined two-dimensional regions are ...

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Method and apparatus for compression coding of image data representative of a color image and digital camera including the same

K. Ito - US Patent 6,144,783, 2000 - Google Patents

... 7, 2000 (54) METHOD AND APPARATUS FOR COMPRESSION CODING OF IMAGE DATA REPRESENTATIVE OF A COLOR IMAGE AND DIGITAL CAMERA INCLUDING THE SAME (75) Inventor: Kenji Ito, Asaka, Japan (73) Assignee: Fuji Photo Film Co., Ltd., Kanagawa ...

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Electronic camera for processing image segments

GE Kodak - US Patent 6,268,743, 2001 - Google Patents

... A reduced-resolution thumbnail image is generated along with a TIFF header (step 106) and ... This EXIF application marker includes the TIFF thumbnail data and other TIFF tags, for example ... The color image data may also be converted into JPEG standard color space (YCC CCIR ...

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Aggregation of reduced-sized images

ML Frost - US Patent 7,418,483, 2006 - Google Patents

... The image to be included in the publication data is retrieved from the storage location identified by the location data. A reduced-size image is generated using the retrieved image and the reduced-size image is aggregated with further reduced-size images for presentation at a ...

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Image information recording medium and image processing system generating the recording medium

N. Nakagawa - US Patent 6,129,038, 2000 - Google Patents

... In the case of EXIF tag information, compression mode information upon recording data in a ... a laboratory to deal with a file for generation or reproduction thereof will be reduced. ... for storage on a computer-readable recording medium, the file comprising: image data obtained by ...

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Digital imaging system and file format for storage and selective transmission of processed and unprocessed image data

NA Parulski, J. Ward, J. Scott Houchin - 2007 - Google Patents

... 30, 2007 DIGITAL IMAGING SYSTEM AND FILE FORMAT FOR STORAGE AND SELECTIVE TRANSMISSION OF PROCESSED AND UNPROCESSED IMAGE DATA Inventors: Kenneth A. Parulski, Rochester, NY (US); J. Scott Houchin, Rochester, NY (US) Assignee: Eastman ...

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Image tagging for post processing

J. J. Felder III - US Patent 7,110,920, 2006 - Google Patents

... 60 Another digital camera standard, **Exif Reader**, available on "http://www.takenet.or.jp/~ryuui/minisoft/exifread/en_glish/", provides a numerous TIFF/EP tags that may be attached to the ... For example, in other implementations, the original **image data** may be **reduced** to a ...

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Electronic image capture device and image file format providing raw and processed image data

WE Photonix, Inc. - US Patent 7,453,486, 2009 - Google Patents

... US 7,453,489 B2 Sheet 8 of 10 TIFF HEADER 1 s 502 IS 1 504 506 i IFDO JPEG INTERCHANGE FORMAT POINTER EXIF IFD POINTER 5 520 IP PAR AM IFD POINTER SUB IFD POINTER NEXT IFD LAST IFD POINTER MAIN EXIF/JPEG DATA THUMBNAIL **IMAGE 516 > 5** ...

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JPEG compatible image file format using multiple application segments

K.A. Ferguson, J. Warr, G.E. Lashin - US Patent ... 2007 - Google Patents

... marker segment to store ancillary **data** and a **reduced-resolution "thumbnail" image**. These **image** formats include JFIF, defined in "JPEG File Interchange Format Version 1.02 Sep. 1, 1992 C-Cube Microsystems", the JPEG compressed version of **Exif** (Exchangeable **image** ...

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Adjustment for output image of image data

Y Nakamori - US Patent 7,301,566, 2007 - Google Patents

... 27, 2007 Sheet 4 of 9 US 7,301,566 B2 **Exif** IFD Tag name Version Tag **Image data** ... amount is a positive correction amount, the determined contrast correction amount is **reduced** as the exposure correction value is increased, and the contrast of the **image data** is adjusted ...

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Adjustment for output image of image data

Y Nakamori - US Patent 7,511,853, 2009 - Google Patents

... X SOX X APP1 103-A 104-A APP2 DQT 105-x X DHT 106-A X DRI 107-A SOF 108-A 110-A SOS **Image data** GD 109-EO APP1 Marker APP1 Length **Exif** ID Code Oth IFD **Exif** IFD 1st IFD **Thumbnail Image Data** 1021 1022 TIFF Header V1023 V 1024 Page 6 ...

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Color image capturing system with antialiasing

RJ Motta - US Patent 6,650,795, 2003 - Google Patents

... and undesirable artifacts such as color fringing at the edges of the reproduced color **image** are **reduced** ... The analog signals from the **image** sensor 18 are serially fed to a gain control circuit 22 ... as well as a JPEG file format 65 conversion component 32 and an **EXIF** file format ...

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Imaging apparatus with communication function, image data storing method and computer program

H Koyama - US Patent 7,190,384, 2009 - Google Patents

31 2006 (54) **IMAGING APPARATUS WITH COMMUNICATION FUNCTION, IMAGE DATA** **STORING METHOD AND COMPUTER PROGRAM (75)** Inventors: Hirohisa Koyama, Tachikawa (JP); Shoichi Nagatomo, Fussa (JP) (73) Assignee: Casio Computer Co., Ltd., Tokyo (JP) ...

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[PDF] Color image quality on the Internet

S. S. Choudhury - Internet Imaging V. 2003 - Elsevier

... Additionally, **image** metadata as available with some file formats (eg **EXIF**, **JPEG2000**) can also be used. ... It could be applicable in a **reduced-reference** framework where the colorfulness of the original **image** is known. Page 5. 5. **IMAGE QUALITY PREDICTION** ...

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[\[PDF\] from pgs. 8-9](#)

Image display system, image processing apparatus, and method for displaying image data

M Nakagawa - US Patent 7,042,600, 2008 - Google Patents

... Each of the frames has tag information, high-resolution **image data** (640x480 pixels) compressed by a JPEG method, and thumbnail **image data** (80x60 pixels). Each frame may be treated as an **image** file of, for example, an **EXIF** format. FIG. ...

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Digital image storage method

Z Sun, AC Loui - US Patent 6,993,190, 2006 - Google Patents

... Information, conversion back to an original extended gamut color space, such as CIELAB, from a **reduced** gamut color ... can be used to make **image** files backward compatible by embedding a standard description of the latest **image** file format (such as **EXIF**) in another ...

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Camera with monitor

A Miyawaki - US Patent 7,110,640, 2009 - Google Patents

... detachable external memory card in accordance with an exchangeable **image** file (**Exif**) format ... the operator holds the camera with the left hand, the **reduced image** is displayed ... electronic camera records the captured **image** by electronically recording the **image data** in the ...

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Method and program for producing a reduced image

K Nishio - US Patent 7,203,294, 2003 - Google Patents

... In this way, the template **image 42** is composed on the **reduced image 41**. The **image** recording section 20 records the produced **data of the reduced image** as the thumbnail **image data 35** between the **EXIF tag data 34** and the **image data 33** ...

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Digital camera

M. Nishimura - US Patent 6,704,053, 2004 - Google Patents

... For example, the aforesaid information is managed as **EXIF type image** files in frame ... In particular, the focal length is **reduced** because a reducing lens 302 is arranged behind the taking lens 301 a short distance from the flange back, and the CCD 303 is arranged at the ...

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Method for image data print control, electronic camera and camera system

S. Ejima - US Patent 7,268,160, 2007 - Google Patents
... 23, 2007 (54) **METHOD FOR IMAGE DATA PRINT CONTROL, ELECTRONIC CAMERA AND CAMERA SYSTEM** (75) Inventors: Satoshi Ejima, Setagaya-ku (JP); Tomoaki Kawamura, Yokohama (JP) (73) Assignee: Nikon Corporation, Tokyo (JP) (*) Notice: Subject to any ...

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Digital image storage method

Z. Sun, R. V. Loo - EP Patent 1,361,187, 2000 - freepatentsonline.com
... residual information, conversion back to an original extended gamut color space, such as CIELAB, from a **reduced gamut color** ... used to make **image** files backward compatible by embedding a standard descriptions of the latest **image** file format (such as **EXIF**) in another ...

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An image-centred search and indexing system based in user's data and perceived emotion

D. Fonseca, O. Garcia, J. Duran - Proceedings of the 3rd ... 2006 - portal.ism.org
... **Exif** (43) that means Exchangeable **Image** File Format, and it is a standard for storing interchange information in **image** files, especially those using ... Then their communicative capacity gets **reduced** and stopping perceiving all the subjective message of the **image** ...

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[PDF] Image annotation with photocapain

M.M. Tufte, S. Harris, G.P. Dussan - Proc. Semantic Web ... 2006 - CiteSeer
... For instance, portraits are typically taken at focal lengths of around 100mm in 35mm equivalent length, with wide aperture (f/4 or above), fill flash (**reduced** power) and the subject of the photo, a head/shoulders, will be of a standard ... The **EXIF image meta-data** is extracted ...

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Image processing method, image processing apparatus and recording medium storing program therefor

F. Takemoto - US Patent 7,061,918, 2006 - Google Patents
... 30 35 40 45 In the **image** processing apparatus of the present invention, it is preferable for the **image data** obtained by the digital camera to be provided to the model tone characteristic absorption means after being **reduced** ...

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Data recording apparatus and method, data reproducing apparatus and method, data recording and reproducing apparatus and method, and map image data format

S. Miyagi - US Patent 7,184,811, 2007 - Google Patents
... 27, 2007 (54) **DATA RECORDING APPARATUS AND METHOD, DATA REPRODUCING APPARATUS AND METHOD, DATA RECORDING AND REPRODUCING APPARATUS AND METHOD, AND MAP IMAGE DATA FORMAT** (75) Inventors: Shiro Miyagi, Tokyo (JP); Yuuko ...

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Digital camera with preset data relating to image data

N. Nishi - US Patent 7,058,931, 2006 - Google Patents
... The file section 17 stores the compressed **image data** in a removable memory 18 such as a compact flash memory in the **Exif** file format. ... stores the main **image data** made up of the YCbCr **image data** generated in the **image** generation section 14 and its **reduced image data** ...

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